

Title (en)

Filter catalyst for purifying exhaust gases

Title (de)

Katalytischer Filter zum Reinigen von Abgasen

Title (fr)

Filtre catalytique pour la purification des gaz d'échappement

Publication

EP 1371826 B1 20060329 (EN)

Application

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Priority

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Abstract (en)

[origin: EP1371826A2] A filter catalyst is for purifying exhaust gases emitted from internal combustion engines and including particulates, and includes a wall-flow honeycomb structure (1) and an upstream-side straight honeycomb structure (2). The wall-flow honeycomb structure (1) includes inlet cells (10) clogged on the downstream side of the exhaust gases, outlet cells (11) neighboring the inlet cells (10) and clogged on the upstream side of the exhaust gases, filter cellular walls (12) demarcating the inlet cells (10) and the outlet cells (11) and having pores, and a catalytic layer (13) formed on the surface of the filter cellular walls (12) and/or the surface of the pores of the filter cellular walls. The upstream-side straight honeycomb structure (2) is disposed on the upstream side of the exhaust gases with respect to the wall-flow honeycomb structure (1), is provided integrally with the wall-flow honeycomb structure (1), and includes upstream-side straight cells (20) in which the exhaust gases flow straight, and upstream-side cellular walls (21) demarcating the upstream-side straight cells. <IMAGE>A filter catalyst is for purifying exhaust gases emitted from internal combustion engines and including particulates, and includes a wall-flow honeycomb structure (1) and an upstream-side straight honeycomb structure (2). The wall-flow honeycomb structure (1) includes inlet cells (10) clogged on the downstream side of the exhaust gases, outlet cells (11) neighboring the inlet cells (10) and clogged on the upstream side of the exhaust gases, filter cellular walls (12) demarcating the inlet cells (10) and the outlet cells (11) and having pores, and a catalytic layer (13) formed on the surface of the filter cellular walls (12) and/or the surface of the pores of the filter cellular walls. The upstream-side straight honeycomb structure (2) is disposed on the upstream side of the exhaust gases with respect to the wall-flow honeycomb structure (1), is provided integrally with the wall-flow honeycomb structure (1), and includes upstream-side straight cells (20) in which the exhaust gases flow straight, and upstream-side cellular walls (21) demarcating the upstream-side straight cells. <IMAGE>

IPC 8 full level

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CPC (source: EP KR US)

B01J 35/56 (2024.01 - EP US); **F01N 3/021** (2013.01 - KR); **F01N 3/0222** (2013.01 - EP US); **F01N 3/035** (2013.01 - EP US); **F01N 3/0814** (2013.01 - EP US); **F01N 3/0821** (2013.01 - EP US); **F01N 3/0842** (2013.01 - EP US); **F01N 2240/20** (2013.01 - EP US); **F01N 2330/38** (2013.01 - EP US); **F01N 2330/48** (2013.01 - EP US)

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